

ABSTRACT OF THE DISCLOSURE

A method for controlling a plant, such as an industrial production plant with a plurality of working units, such as industrial robots or the like, using at least one programmable logic control (PLC), is characterized in that historical process data are fed into an input area of the PLC and processed by a PLC program logic. An apparatus suitable for performing the method according to the invention has a real time information server for acquiring, archiving or transferring in each case specific historical process data with respect to the plant and a data stream controller for the flexible transfer of archived process data to at least one programmable logic control PLC for controlling the plant, wherein the output data of the PLC can be fed back into the latter.